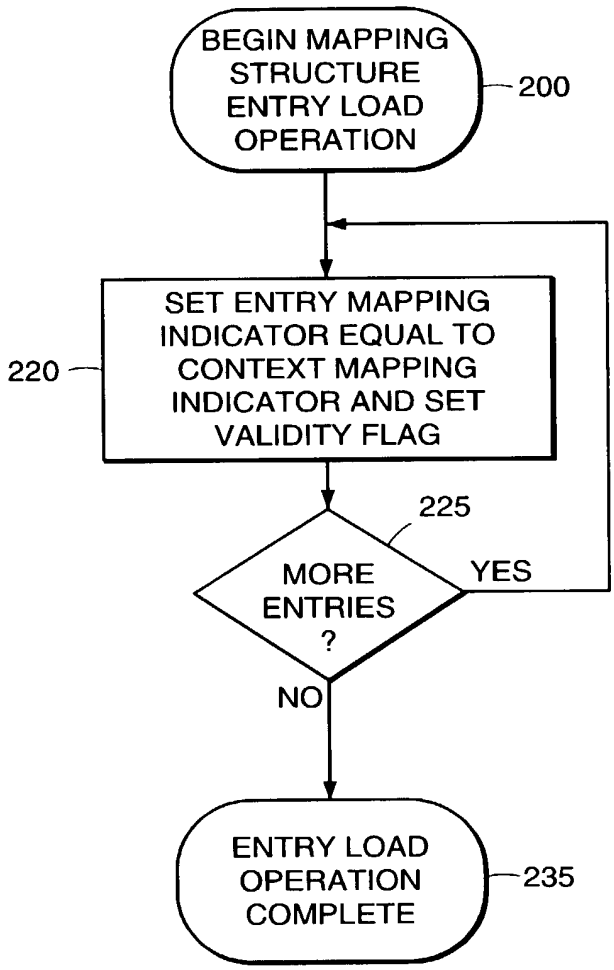
BEGIN MAPPING STRUCTURE ENTRY LOAD OPERATION
200
SET ENTRY MAPPING INDICATOR EQUAL TO CONTEXT MAPPING INDICATOR AND SET VALIDITY FLAG
220
225
MORE ENTRIES ?
YES
NO
ENTRY LOAD OPERATION COMPLETE
235

FIG. 1

2/5

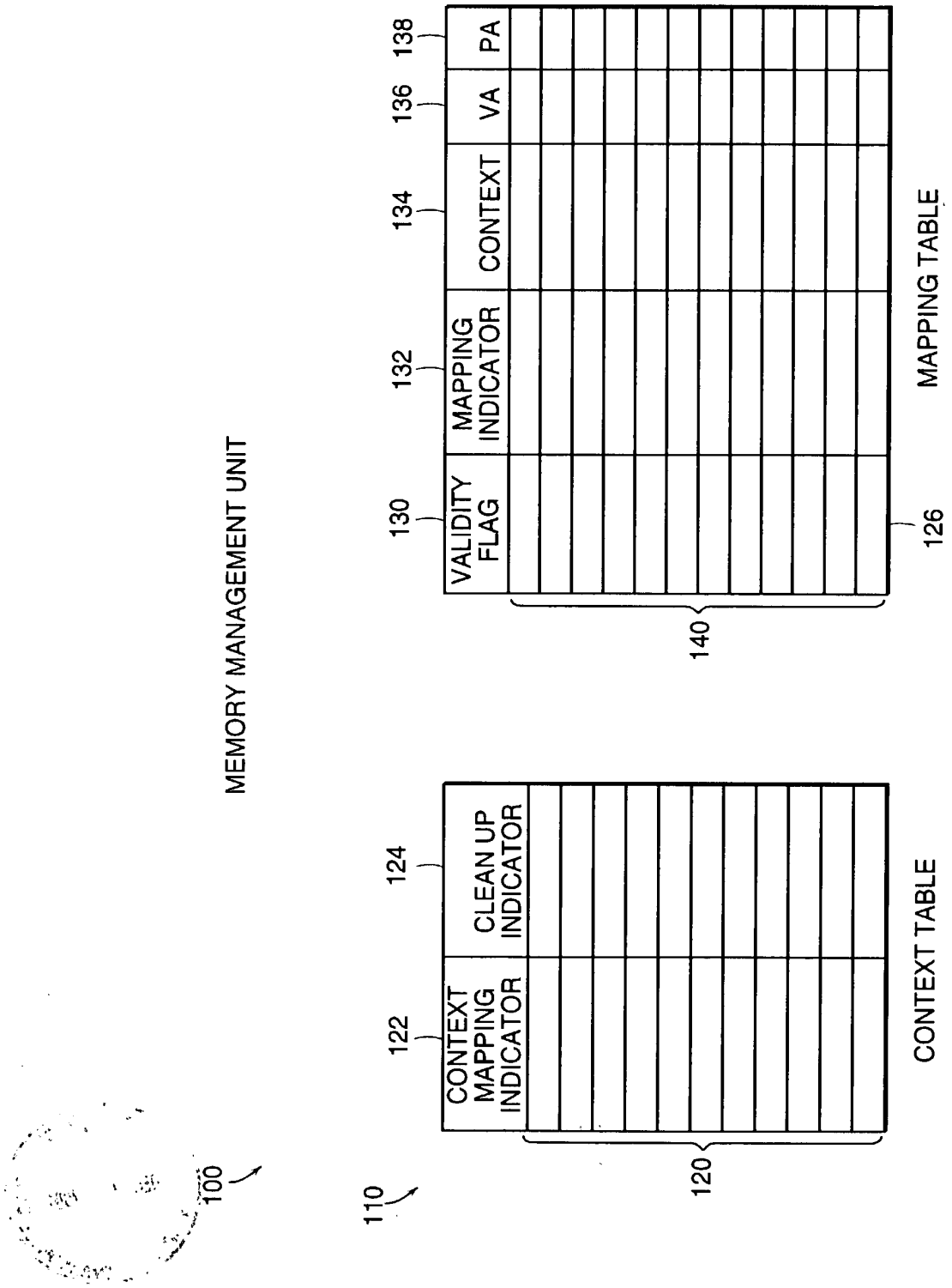
MEMORY MANAGEMENT UNIT
100
110
CONTEXT TABLE
120
CONTEXT MAPPING INDICATOR
122
CLEAN UP INDICATOR
124
MAPPING TABLE
126
140
VALIDITY FLAG
130
MAPPING INDICATOR
132
CONTEXT
134
VA
136
PA
138

FIG. 2

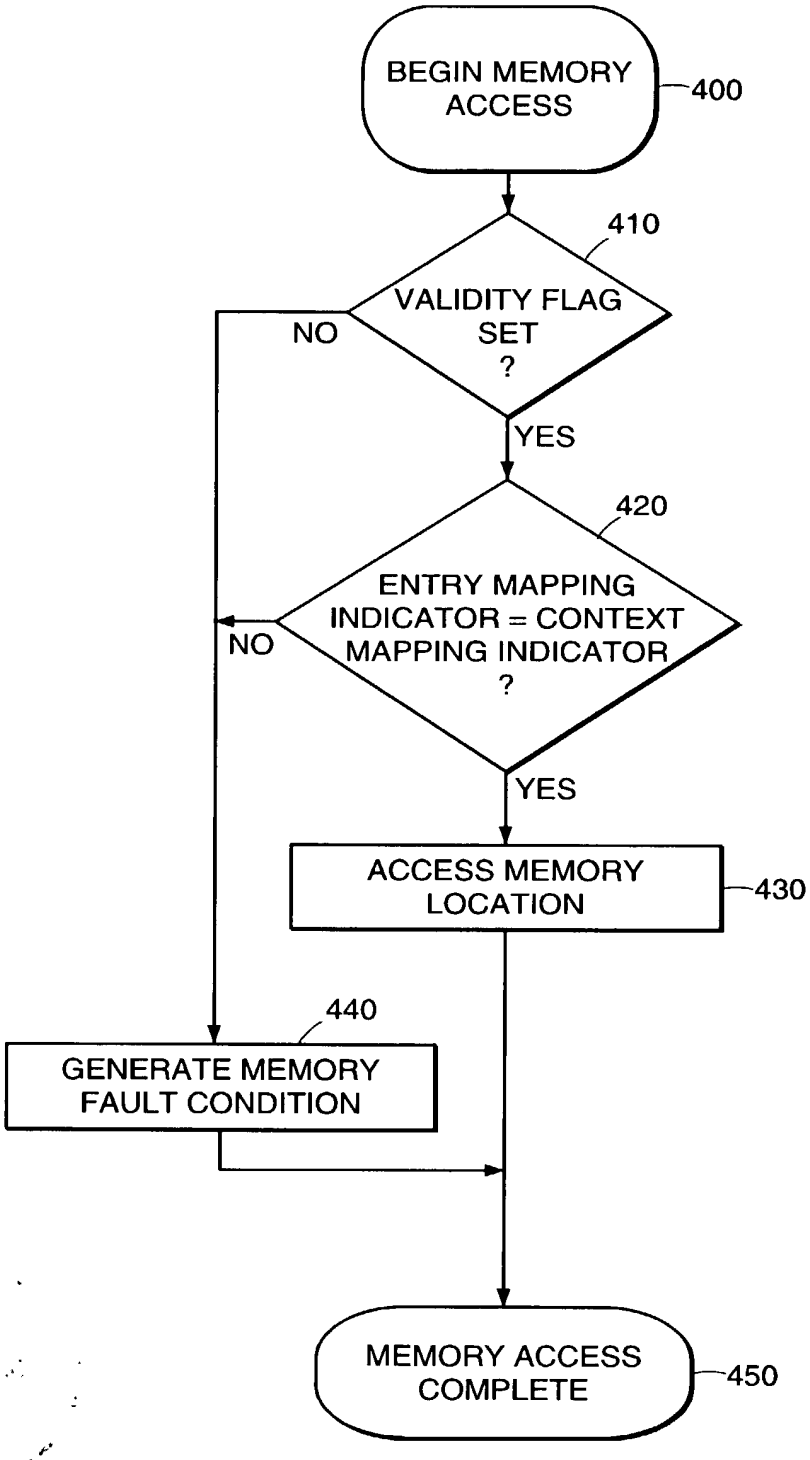
BEGIN MEMORY ACCESS
400
410
VALIDITY FLAG SET ?
NO
YES
420
ENTRY MAPPING INDICATOR = CONTEXT MAPPING INDICATOR ?
NO
YES
ACCESS MEMORY LOCATION
430
440
GENERATE MEMORY FAULT CONDITION
MEMORY ACCESS COMPLETE
450

FIG. 3

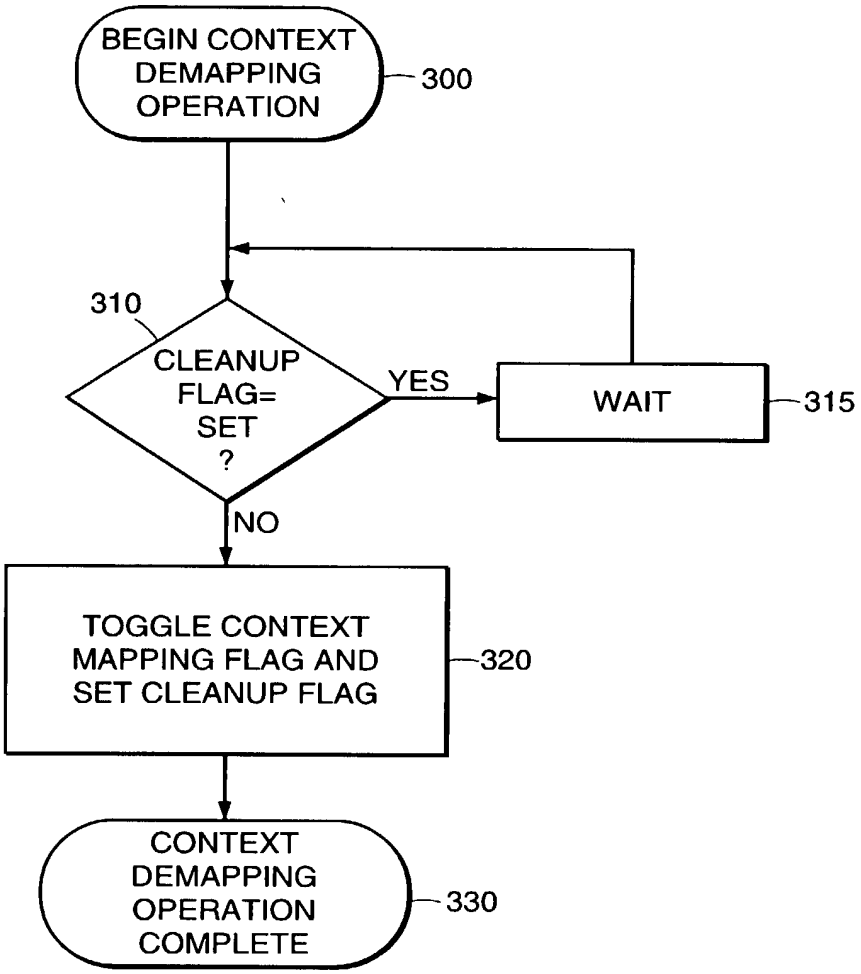
BEGIN CONTEXT DEMAPPING OPERATION
300
310
CLEANUP FLAG= SET ?
YES
WAIT
315
NO
TOGGLE CONTEXT MAPPING FLAG AND SET CLEANUP FLAG
320
CONTEXT DEMAPPING OPERATION COMPLETE
330

FIG. 4

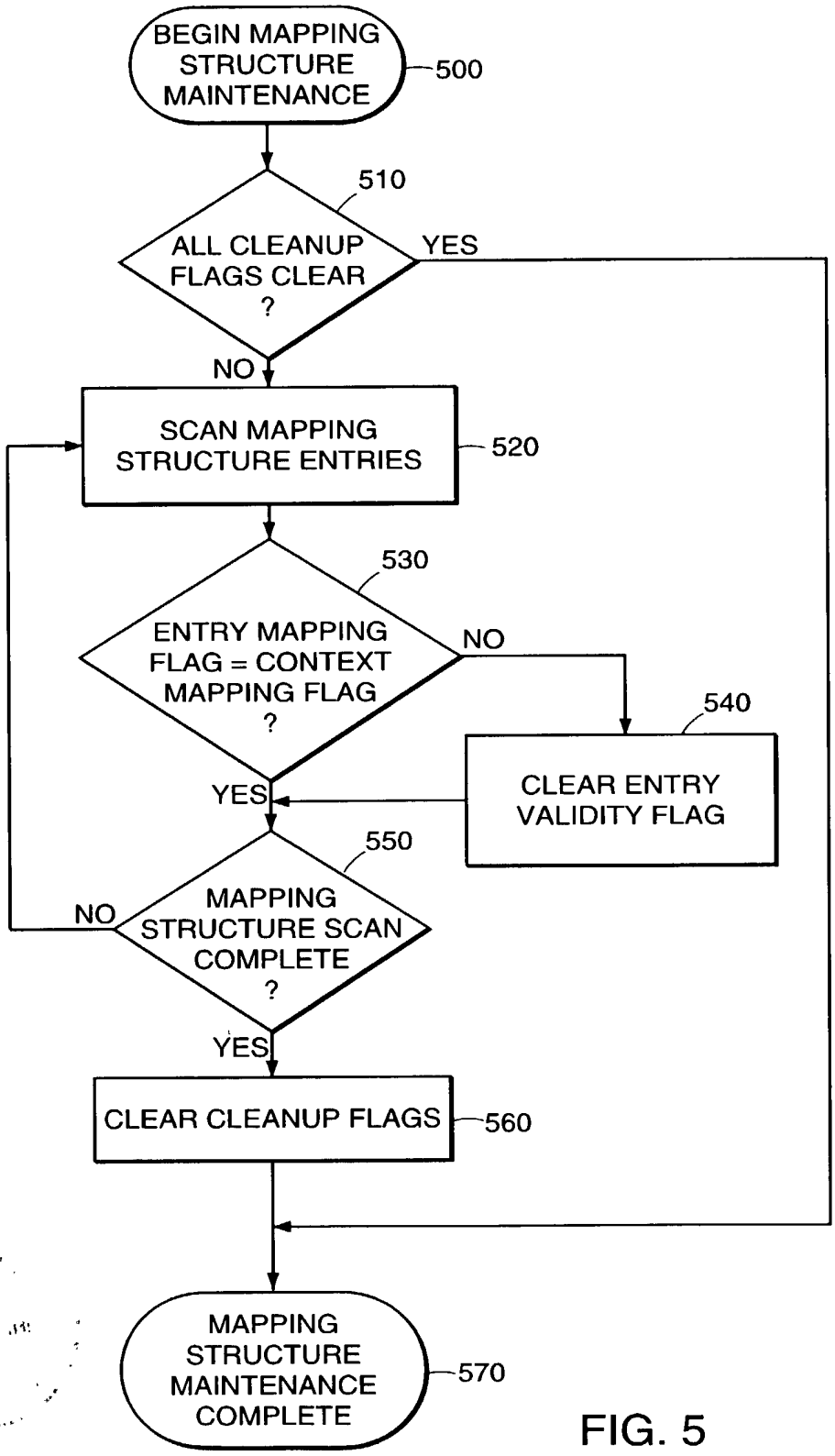
BEGIN MAPPING STRUCTURE MAINTENANCE
500
510
ALL CLEANUP FLAGS CLEAR ?
YES
NO
SCAN MAPPING STRUCTURE ENTRIES
520
530
ENTRY MAPPING FLAG = CONTEXT MAPPING FLAG ?
NO
540
CLEAR ENTRY VALIDITY FLAG
YES
550
MAPPING STRUCTURE SCAN COMPLETE ?
NO
YES
CLEAR CLEANUP FLAGS
560
MAPPING STRUCTURE MAINTENANCE COMPLETE
570

FIG. 5